

START Surface IP54 PIR 450-1800lm 830/840
0043407



Features

• Ceiling / wall luminaire with integrated LED. Perfect solution for hallways, circulation spaces or foyers. Body Size diameter 300mm. Besa mounting box compatible, hole distance 51 & 78mm. DualTone functionality enables switch between 3000K and 4000K colour temperatures. With the help of DIP Switch multiple lumen outputs can be set up in 4 steps (4000K: 6W 450lm, 9.3W 890lm, 13.5W 1400lm, 17.5W 1800lm). Efficacy up to 104lm/W. Supplied with integrated PIR (infra-red) sensor for automatic on-off presence control. Non-dimmable. IK03, IP54. Low maintenance with lifespan 120,000 hours L70:B50

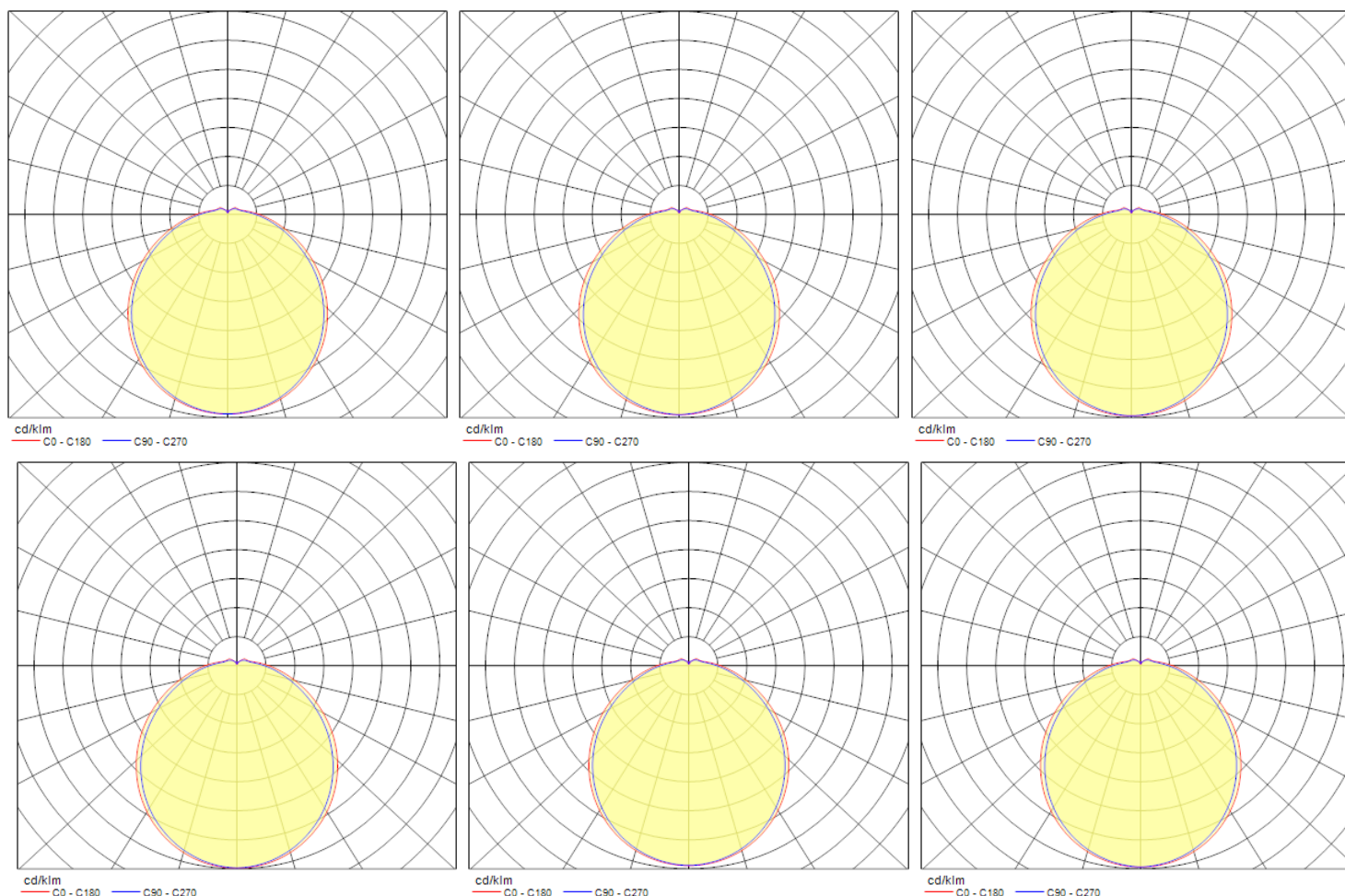
Product Overview

Product name	START Surface IP54 PIR 450-1800lm 830/840
Technology	LED
Cap/Base	N/A
Housing	PC Polycarbonate
Mount	Ceiling surface mounting
General application	Hospitality, Museums & Galleries
ETIM Class	EC002892
E-number FI	4279507
Fixture luminous flux (lm)	1800
Luminaire efficacy (lm/W)	103
Light colour	Warm White or Neutral White
CRI (Ra)	80
Colour Variation Initial (SDCM)	6
Beam Angle (°)	120
Photobiological Risk Group	RG1
Total power consumption (W)	17.5
Electrical protection	Class II

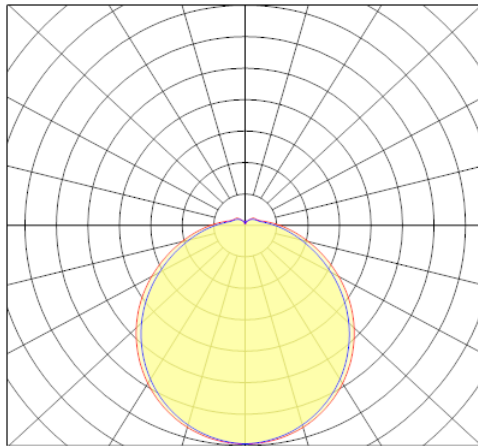
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Control gear type	LED driver constant current
Dimmable	No
LED Flickering Rate	Low (6% - 20%)
Housing colour	RAL9003
IP rating	IP54
IK rating	IK03
Product EAN number	5410288434070
Warranty	5 years
Dimming method	N/A

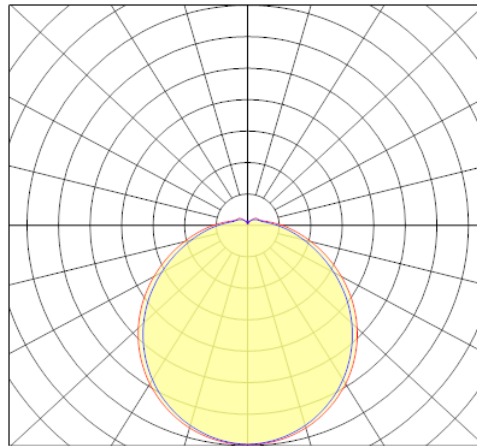
Photometry



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cd/klm
— C0 - C180 — C90 - C270



cd/klm
— C0 - C180 — C90 - C270

Distance [m]	Cone diameter [m]	Illuminance [lx]
0.5	1.61 1.77	E(0°) 1997 E(C90) 139 E(C0) 113
1.0	3.23 3.53	E(0°) 474 E(C90) 55.2° E(C0) 23
1.5	4.84 5.30	E(0°) 211 E(C90) 55.2° E(C0) 15
2.0	6.45 7.07	E(0°) 119 E(C90) 55.2° E(C0) 9
2.5	8.06 8.84	E(0°) 76 E(C90) 55.2° E(C0) 5
3.0	9.68 10.60	E(0°) 53 E(C90) 55.2° E(C0) 3

Distance [m] Cone diameter [m] Illuminance [lx]
— C0 - C180 (Half beam angle: 121.0°)
— C90 - C270 (Half beam angle: 116.4°)

Distance [m]	Cone diameter [m]	Illuminance [lx]
0.5	1.59 1.77	E(0°) 1462 E(C90) 57.8° E(C0) 111
1.0	3.18 3.55	E(0°) 355 E(C90) 57.8° E(C0) 23
1.5	4.76 5.32	E(0°) 162 E(C90) 57.8° E(C0) 12
2.0	6.35 7.10	E(0°) 91 E(C90) 57.8° E(C0) 5
2.5	7.94 8.87	E(0°) 58 E(C90) 57.8° E(C0) 3
3.0	9.53 10.65	E(0°) 41 E(C90) 57.8° E(C0) 2

Distance [m] Cone diameter [m] Illuminance [lx]
— C0 - C180 (Half beam angle: 121.2°)
— C90 - C270 (Half beam angle: 115.6°)

Distance [m]	Cone diameter [m]	Illuminance [lx]
0.5	1.58 1.77	E(0°) 944 E(C90) 57.8° E(C0) 73
1.0	3.15 3.53	E(0°) 236 E(C90) 57.8° E(C0) 14
1.5	4.73 5.30	E(0°) 105 E(C90) 57.8° E(C0) 8
2.0	6.30 7.07	E(0°) 59 E(C90) 57.8° E(C0) 4
2.5	7.88 8.84	E(0°) 38 E(C90) 57.8° E(C0) 2
3.0	9.45 10.60	E(0°) 26 E(C90) 57.8° E(C0) 2

Distance [m] Cone diameter [m] Illuminance [lx]
— C0 - C180 (Half beam angle: 121.0°)
— C90 - C270 (Half beam angle: 115.2°)

Distance [m]	Cone diameter [m]	Illuminance [lx]
0.5	1.57 1.76	E(0°) 502 E(C90) 57.8° E(C0) 39
1.0	3.14 3.52	E(0°) 125 E(C90) 57.8° E(C0) 8
1.5	4.71 5.28	E(0°) 56 E(C90) 57.8° E(C0) 3
2.0	6.28 7.04	E(0°) 31 E(C90) 57.8° E(C0) 2
2.5	7.85 8.80	E(0°) 20 E(C90) 57.8° E(C0) 1
3.0	9.42 10.56	E(0°) 14 E(C90) 57.8° E(C0) 1

Distance [m] Cone diameter [m] Illuminance [lx]
— C0 - C180 (Half beam angle: 120.8°)
— C90 - C270 (Half beam angle: 115.0°)

Distance [m]	Cone diameter [m]	Illuminance [lx]
0.5	1.61 1.76	E(0°) 1962 E(C90) 58.1° E(C0) 146
1.0	3.21 3.52	E(0°) 496 E(C90) 58.1° E(C0) 30
1.5	4.82 5.28	E(0°) 220 E(C90) 58.1° E(C0) 13
2.0	6.43 7.04	E(0°) 124 E(C90) 58.1° E(C0) 9
2.5	8.03 8.80	E(0°) 79 E(C90) 58.1° E(C0) 5
3.0	9.64 10.56	E(0°) 55 E(C90) 58.1° E(C0) 3

Distance [m] Cone diameter [m] Illuminance [lx]
— C0 - C180 (Half beam angle: 120.8°)
— C90 - C270 (Half beam angle: 115.6°)

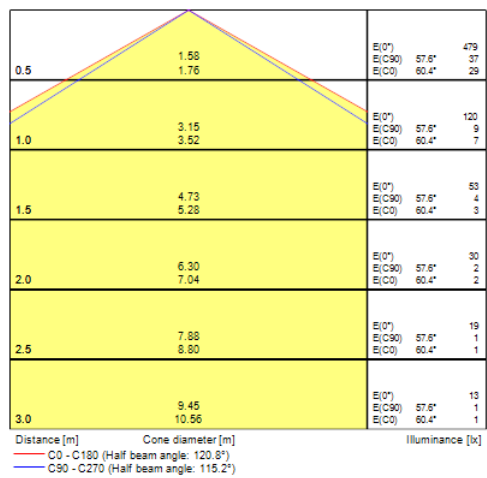
Distance [m]	Cone diameter [m]	Illuminance [lx]
0.5	1.58 1.76	E(0°) 1553 E(C90) 57.7° E(C0) 119
1.0	3.16 3.52	E(0°) 388 E(C90) 57.7° E(C0) 23
1.5	4.75 5.28	E(0°) 173 E(C90) 57.7° E(C0) 10
2.0	6.33 7.04	E(0°) 97 E(C90) 57.7° E(C0) 6
2.5	7.91 8.80	E(0°) 62 E(C90) 57.7° E(C0) 4
3.0	9.49 10.56	E(0°) 43 E(C90) 57.7° E(C0) 3

Distance [m] Cone diameter [m] Illuminance [lx]
— C0 - C180 (Half beam angle: 120.8°)
— C90 - C270 (Half beam angle: 115.4°)

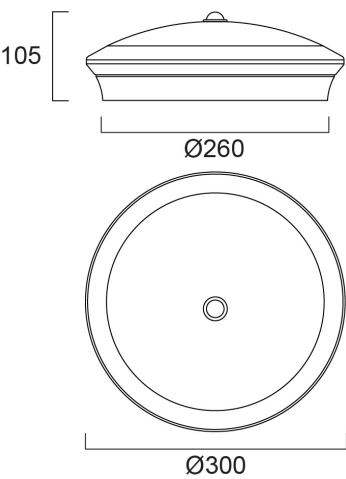
Distance [m]	Cone diameter [m]	Illuminance [lx]
0.5	1.58 1.76	E(0°) 989 E(C90) 57.8° E(C0) 76
1.0	3.15 3.52	E(0°) 247 E(C90) 57.8° E(C0) 15
1.5	4.73 5.28	E(0°) 110 E(C90) 57.8° E(C0) 7
2.0	6.30 7.04	E(0°) 62 E(C90) 57.8° E(C0) 4
2.5	7.88 8.80	E(0°) 40 E(C90) 57.8° E(C0) 2
3.0	9.45 10.56	E(0°) 27 E(C90) 57.8° E(C0) 2

Distance [m] Cone diameter [m] Illuminance [lx]
— C0 - C180 (Half beam angle: 120.8°)
— C90 - C270 (Half beam angle: 115.2°)

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Technical drawings



Data table

GENERAL DATA

Product name	START Surface IP54 PIR 450-1800lm 830/840
Technology	LED
Cap/Base	N/A
Housing	PC Polycarbonate

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Mount	Ceiling surface mounting
General application	Hospitality, Museums & Galleries
Operating temperature range (°C)	-20°C...+40°C
ETIM Class	EC002892
E-number FI	4279507
Warranty	5 years

OPTICAL DATA

Fixture luminous flux (lm)	1800
Luminaire efficacy (lm/W)	103
Light colour	Warm White or Neutral White
CRI (Ra)	80
Colour Variation Initial (SDCM)	6
Beam Angle (°)	120
Distribution type	Symmetric
Photobiological Risk Group	RG1

ELECTRICAL DATA

Total power consumption (W)	17.5
Primary Supply/Product voltage - min (V)	220.0
Primary Supply/Product voltage - max (V)	240.0
Lamp power factor	0.8
THD (at 230 V, 50 Hz, full load, at 100% dimming level) ≤ xx.x %	20
Electrical protection	Class II
Control gear required	No
Control gear type	LED driver constant current
No. Of switching cycles before premature failures	>100000
Dimmable	No
Dimming method	N/A
Drive current (mA)	100
Inrush Current (A)	3
Inrush Duration (µs)	100

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Energy Efficiency Class (A->G) of contained light source	C
Nominal Frequency (Hz)	50/60Hz
LED Flickering Rate	Low (6% - 20%)
Max. products per 10A C Breaker	72
Max. products per 13A C Breaker	93
Max. products per 16A C Breaker	117
Max. products per 20A C Breaker	143
Max. products per 10A B Breaker	43
Max. products per 13A B Breaker	56
Max. products per 16A B Breaker	69
Max. products per 20A B Breaker	86
Connectable conductor cross section - Max (mm ²)	1.5

LIFETIME DATA

Lifespan L70 B50	120000
Lifespan L70 B20	120000
Lifespan L70 B10	120000
Lifespan L80 B50	105000
Lifespan L80 B20	95000
Lifespan L80 B10	89000
Lifespan L90 B50	51000
Lifespan L90 B20	47000
Lifespan L90 B10	44000

PHYSICAL DATA

Housing colour	RAL9003
IP rating	IP54
IK rating	IK03
Diffuser finish	Opal
Diffuser material	PMMA Acrylic
Nominal Product Height (mm)	105
Nominal Product Diameter (mm)	300



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Weight (kg)	0.602
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PACKAGING

Product EAN number	5410288434070
Packaging single length / height (cm)	32.4
Packaging single width (cm)	11.3
Packaging single depth (cm)	32.4
DUN14 (inner)	15410288434077
Units per outer package	6
Packaging outer length / height (cm)	70.3
Packaging outer width (cm)	34.3
Packaging outer depth (cm)	35.2

SAFETY DATA

Glow Wire Test (°C)	850
Optimal operating condition (°C)	-20-40
Special purpose lamp	No
Dry applications use only	No
Suitable for household illumination	No